

1

DIALOG(R)File 351:Derwent WPI
(c) 2001 Derwent Info Ltd. All rts. reserv.

AA- 1996-074894/199608|
XR- <XRAM> C96-024395|
TI- Inhibitor of mammalian intestinal lipase - comprises peptide derived
from wheat, used in food preservation|
PA- KYODO NYUGYO KK (KYOD)|
NC- 001|
NP- 001|
PN- JP 7330794 A 19951219 JP 94146983 A 19940607 199608 B|
AN- <LOCAL> JP 94146983 A 19940607|
AN- <PR> JP 94146983 A 19940607|
FD- JP 7330794 A C07K-014/415|
LA- JP 7330794(3)|
AB- <BASIC> JP 7330794 A

Inhibitor (A) for lipase in the mammalian intestines comprises a material derived from wheat. Pref. (A) is (A1) with mol.wt. of 25000, isoelectric point of 7.1 - 6.9 and amino acid sequence of Arg-Ser-Ala-His-Glu-Pro-Gln-Gln-Pro (LI-Ea-1-2) from N-terminal; or (A2) mol.wt. of 28000, isoelectric point of 6.7 and amino acid sequence of Arg-Ser-Ala-His-Glu-Glu-Gln-Gln-His (LI-Ea-1-3) from N-terminal. (A) is stable at pH 3-7 and at 60 and 80 deg. C for 60 min., and has Km = 0.1229 mM.

They exhibited lipase inhibitory activity of 1293, 612, 0, 0, and 0 U/mg, respectively, against lipases of porcine pancreatic juice, Candida cylindracea, Rhizopus arrhizus, Chromobacterium viscosus and Pseudomonas sp., respectively.

USE/ADVANTAGE - (A) is effective inside the body, as well as outside. Lipase inhibitors (A) are used for the prevention of deterioration of foods. In an example Lipase inhibitors (A1) and (A2) were extracted from seeds of wheat by conventional methods.

Dwg.0/2|

DE- <TITLE TERMS> INHIBIT; MAMMAL; INTESTINAL; LIPASE; COMPRISE; PEPTIDE;
DERIVATIVE; WHEAT; FOOD; PRESERVE|
DC- D13|
IC- <MAIN> C07K-014/415|
IC- <ADDITIONAL> A23L-003/3526; C12N-009/99|
MC- <CPI> D03-F01|
FS- CPI||